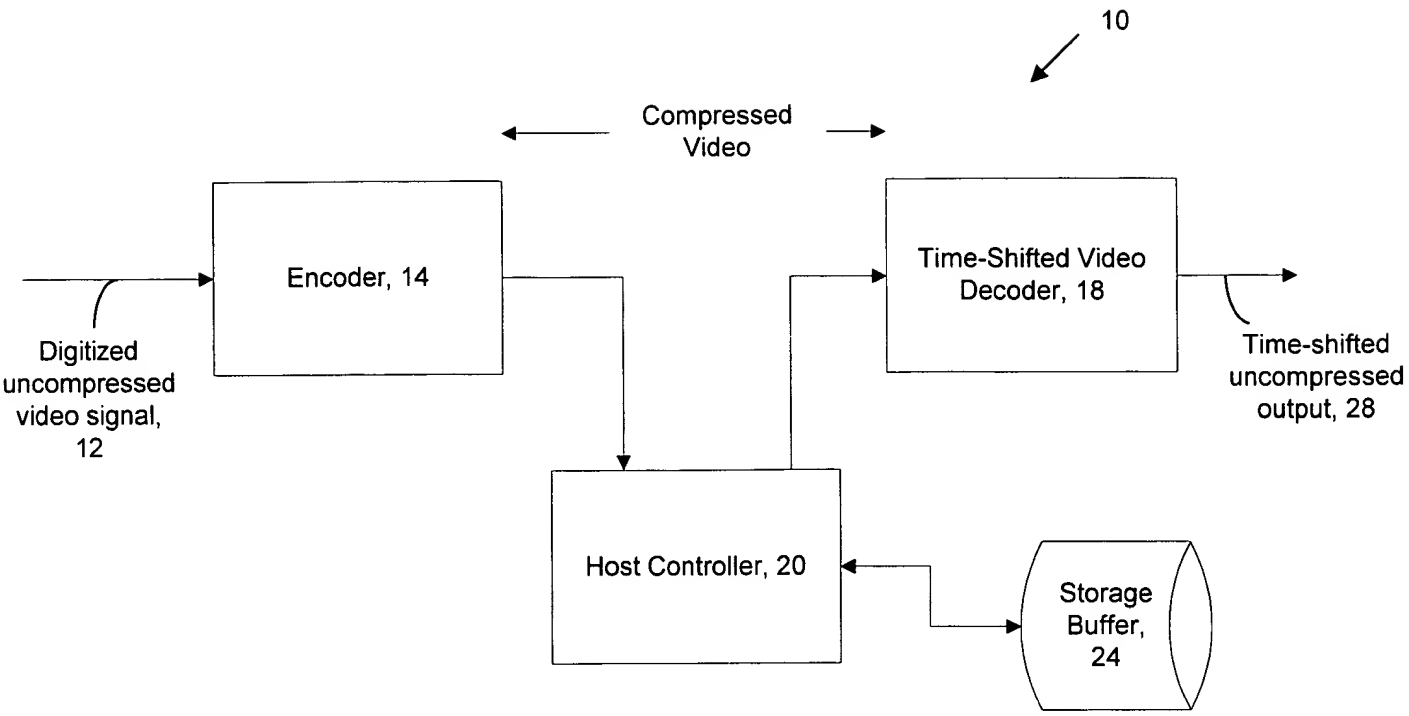

Figure 1

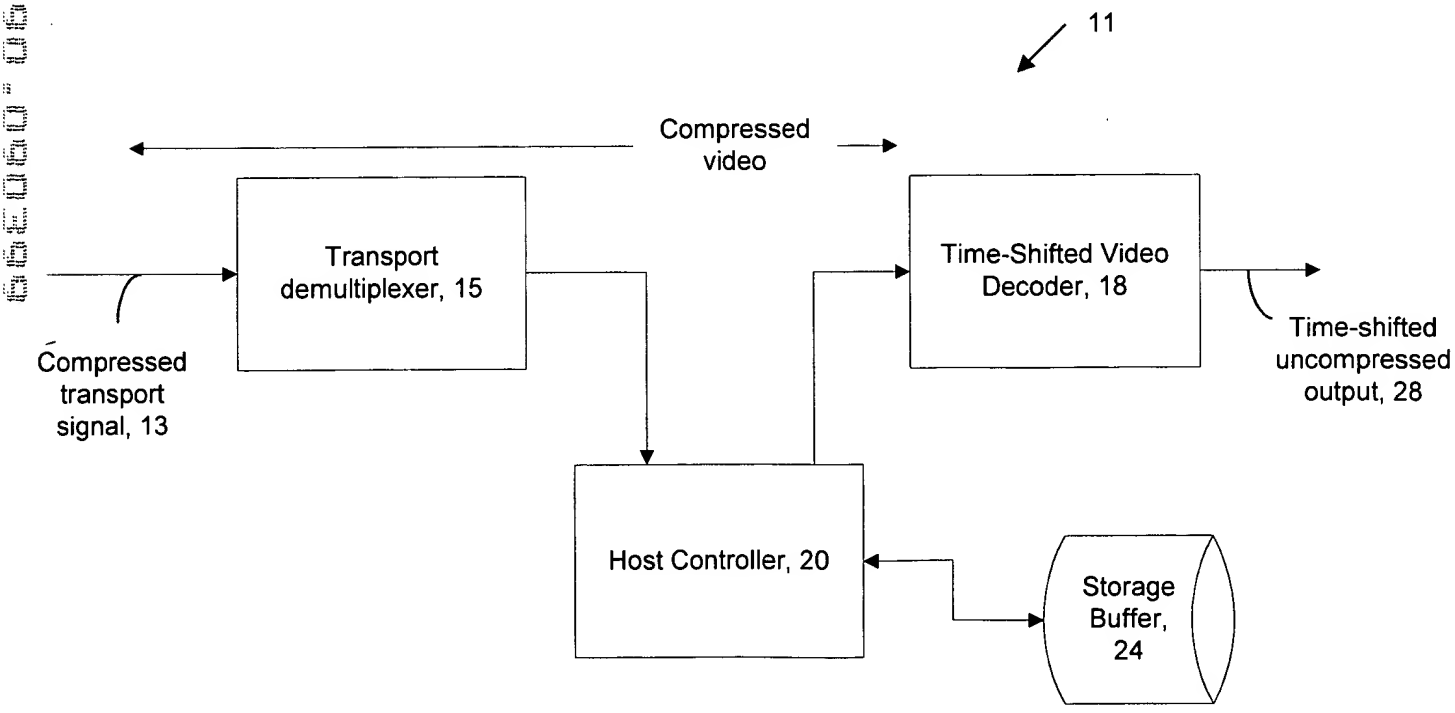

Figure 2

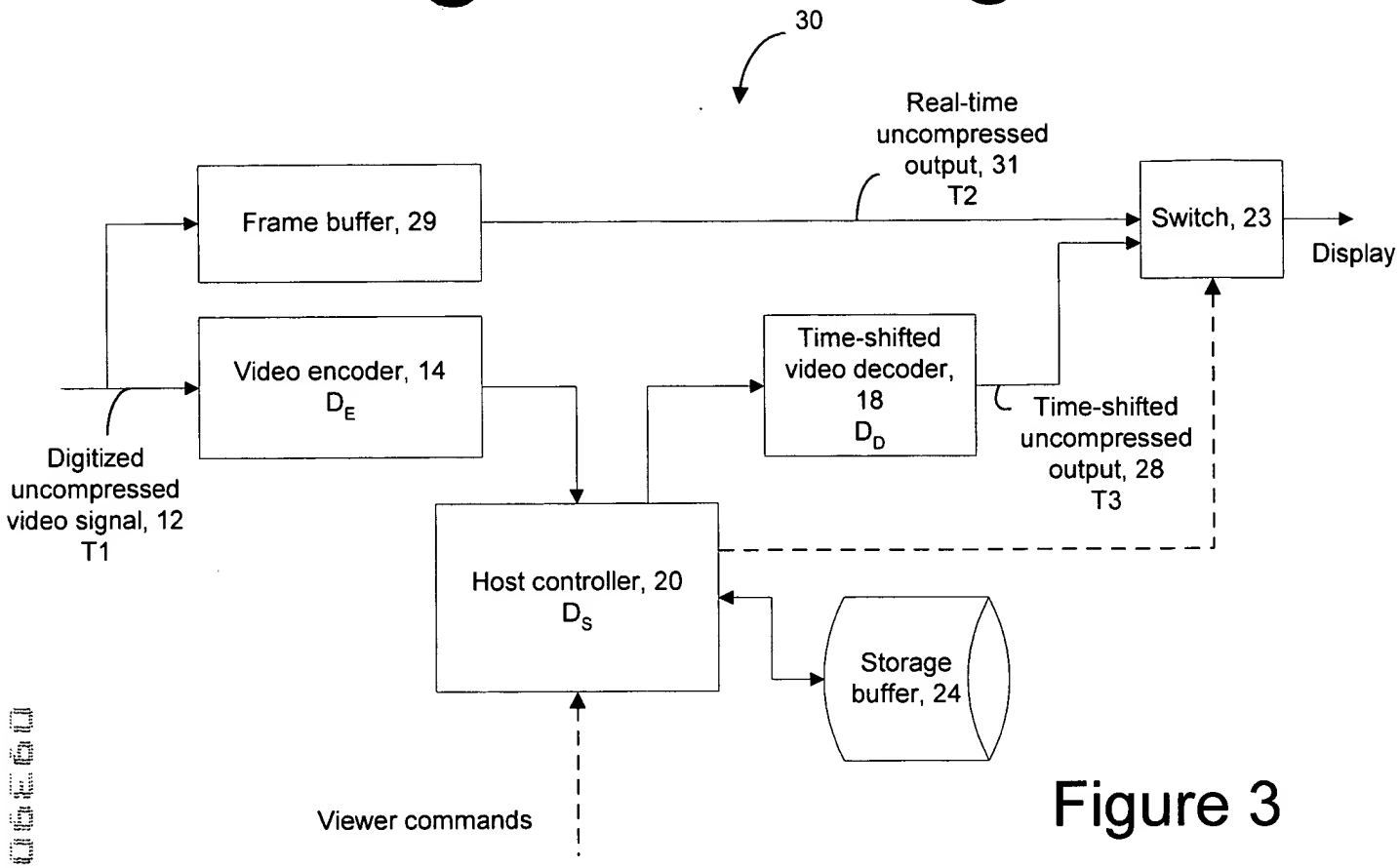

Figure 3

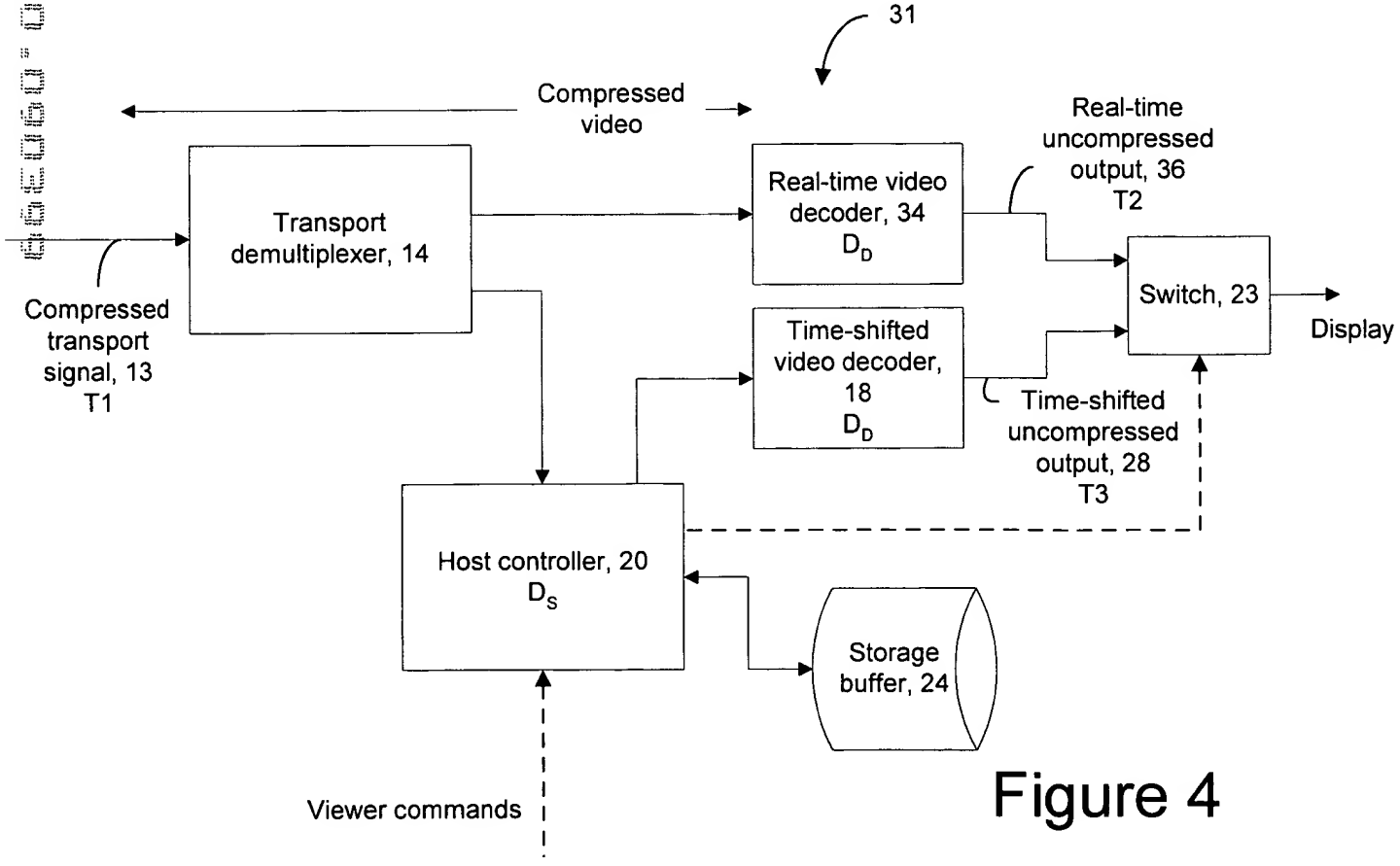

Figure 4

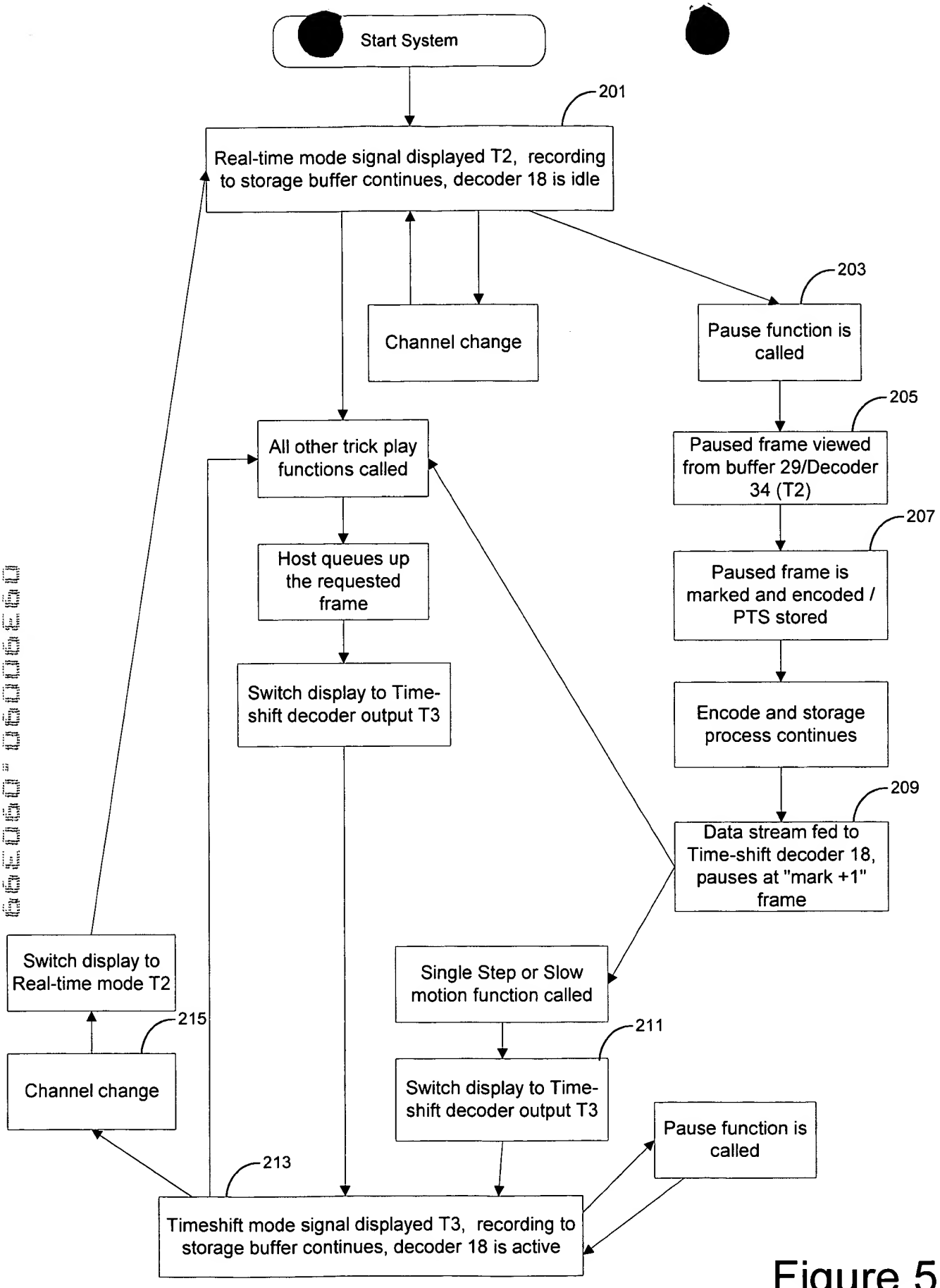
Start System
201
Real-time mode signal displayed T2, recording to storage buffer continues, decoder 18 is idle
Channel change
203
Pause function is called
205
Paused frame viewed from buffer 29/Decoder 34 (T2)
207
Paused frame is marked and encoded / PTS stored
Encode and storage process continues
209
Data stream fed to Time-shift decoder 18, pauses at "mark +1" frame
All other trick play functions called
Host queues up the requested frame
Switch display to Time-shift decoder output T3
Single Step or Slow motion function called
211
Switch display to Time-shift decoder output T3
Pause function is called
213
Timeshift mode signal displayed T3, recording to storage buffer continues, decoder 18 is active
Switch display to Real-time mode T2
215
Channel change

Figure 5

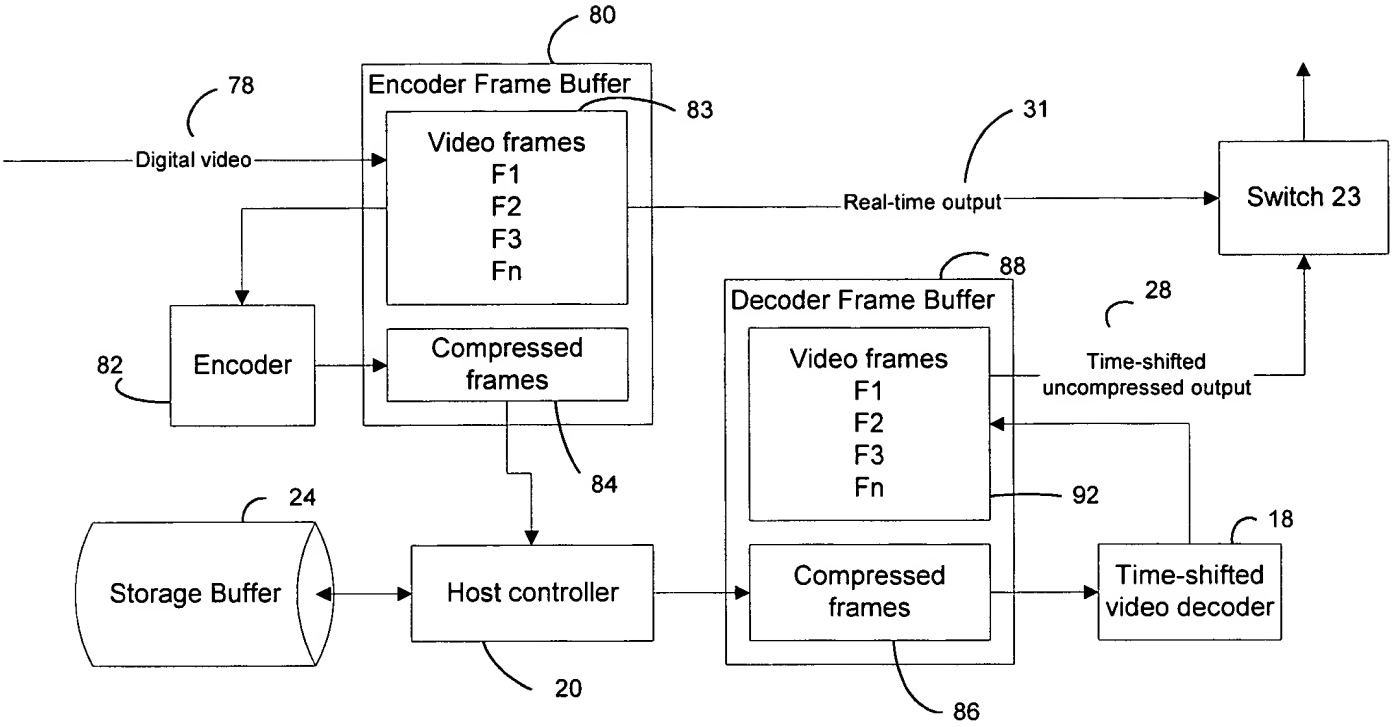

Figure 6

5,966,465

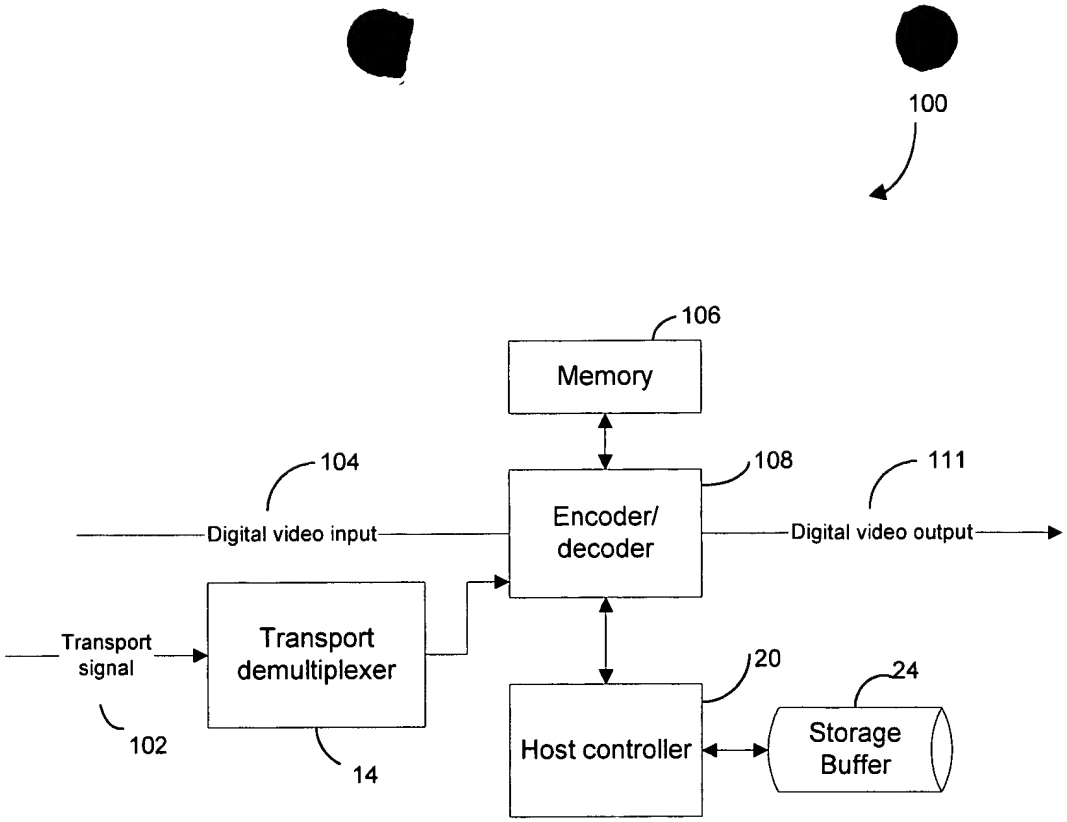
100
106
Memory
104
108
111
Digital video input
Encoder/
decoder
Digital video output
Transport
signal
Transport
demultiplexer
20
24
Host controller
Storage
Buffer
102
14

Figure 7